

FIG. 1

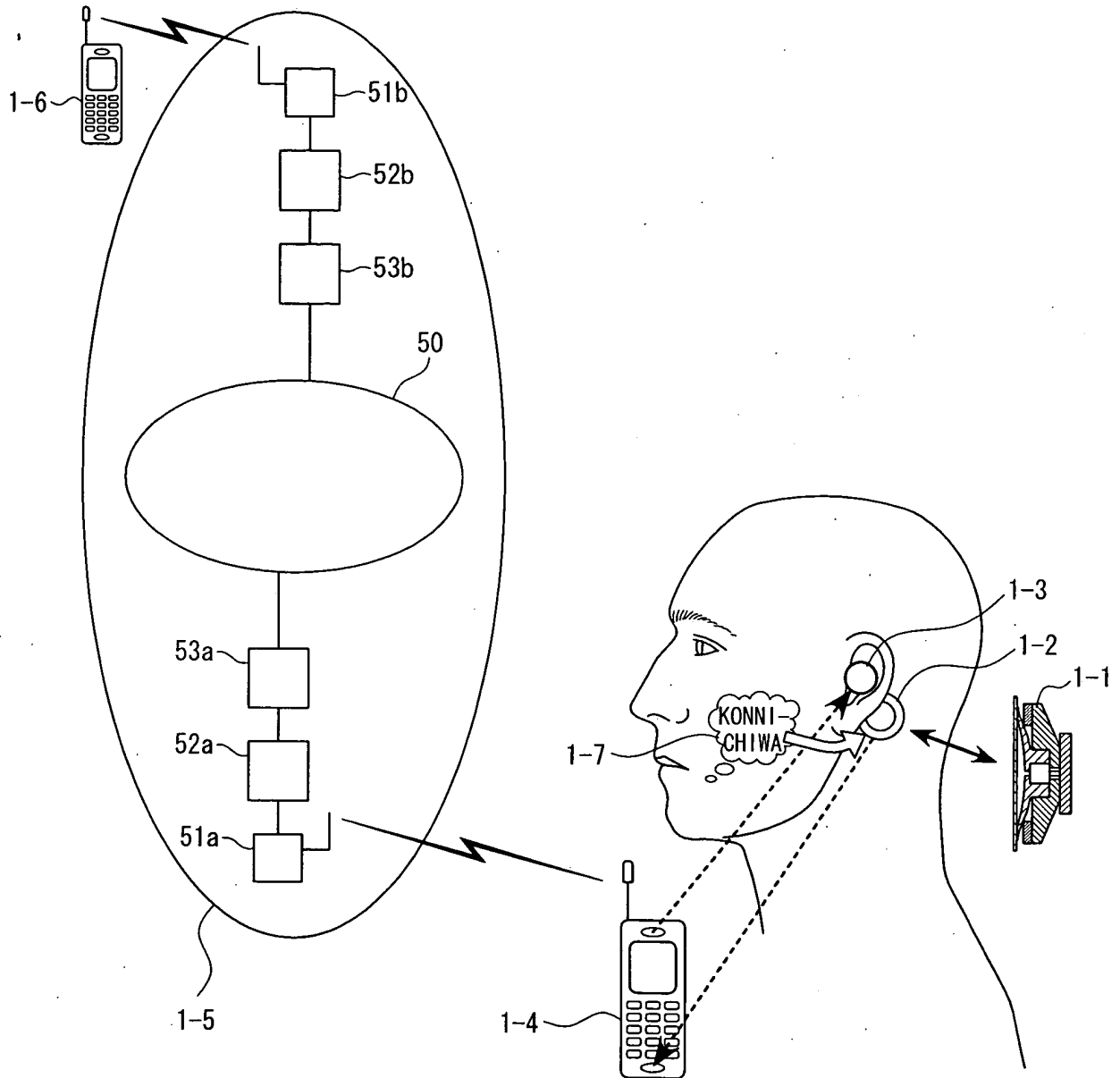


FIG. 2

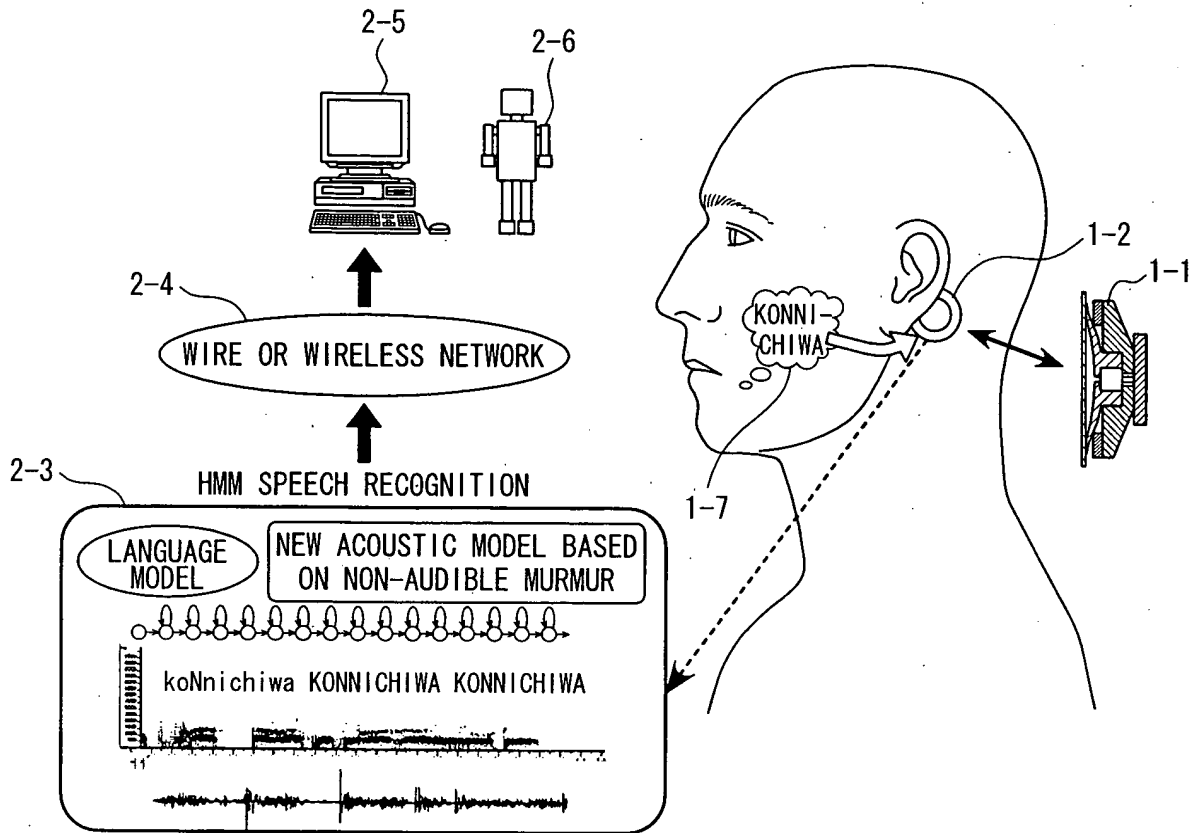


FIG. 3A

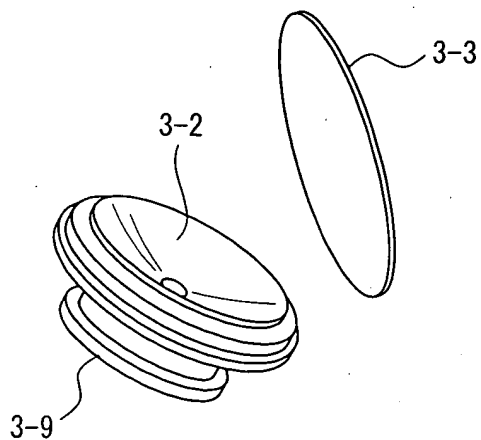


FIG. 3B

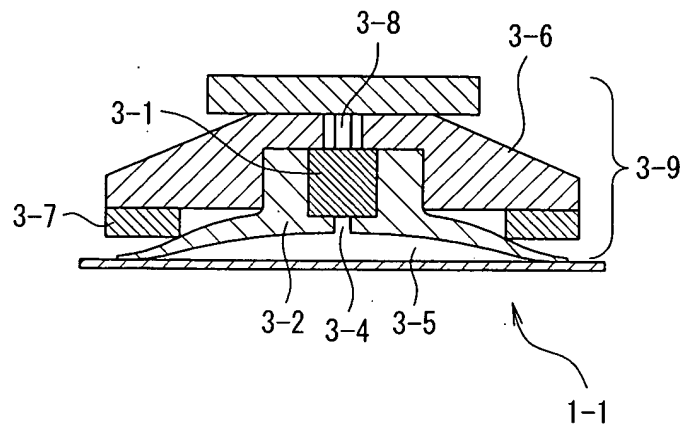


FIG. 4

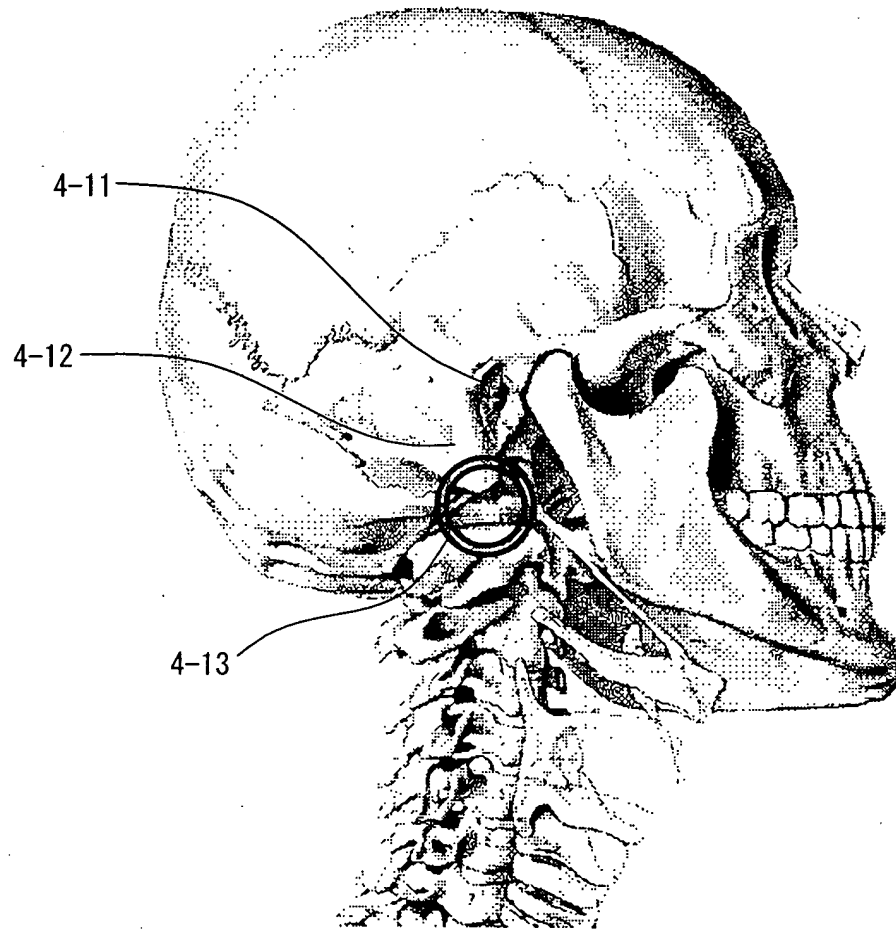
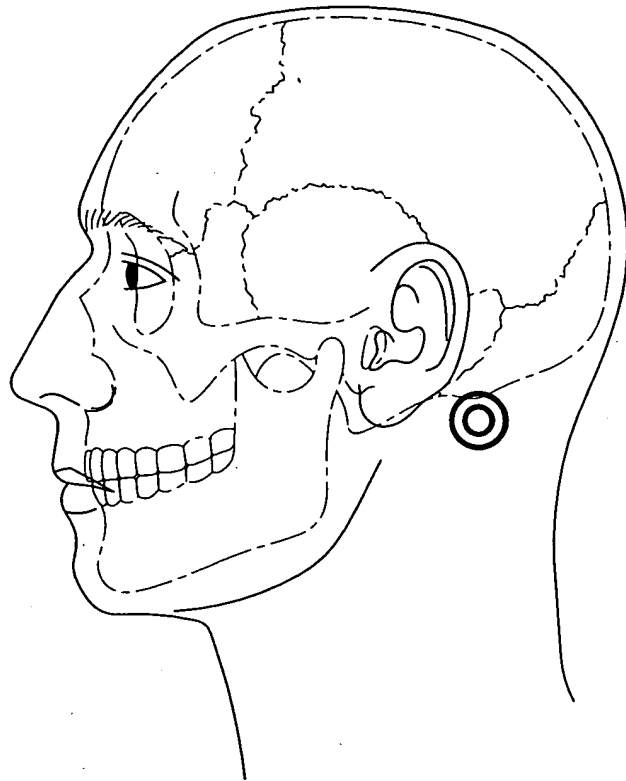


FIG. 5



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FIG. 6

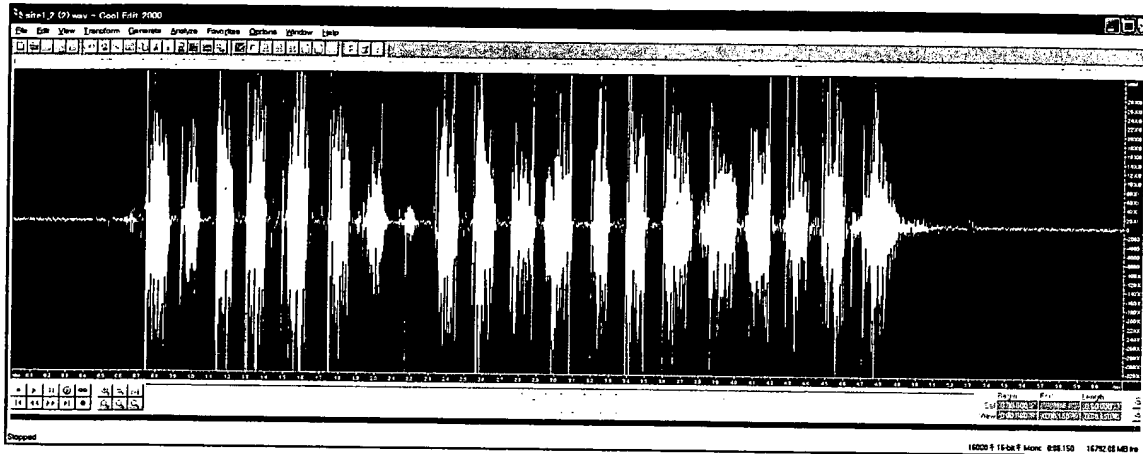
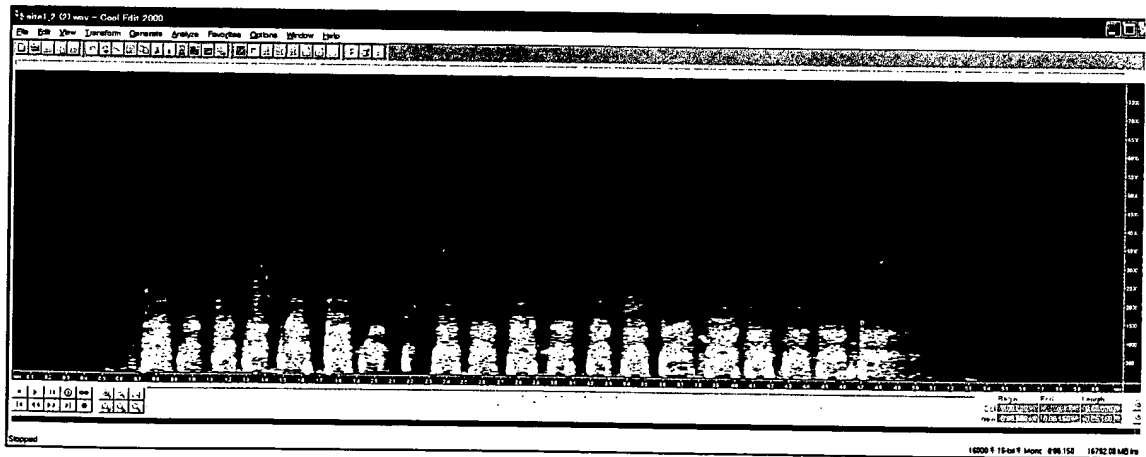


FIG. 7



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FIG. 8

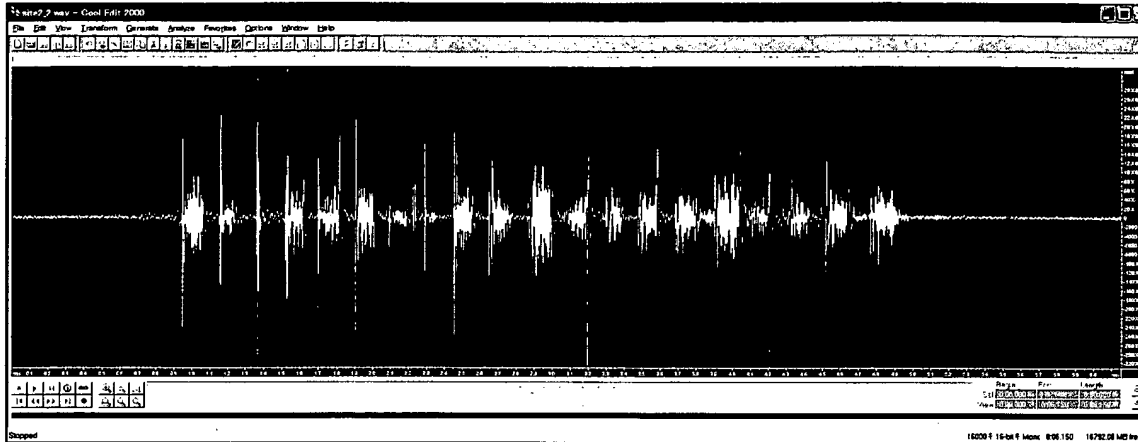


FIG. 9

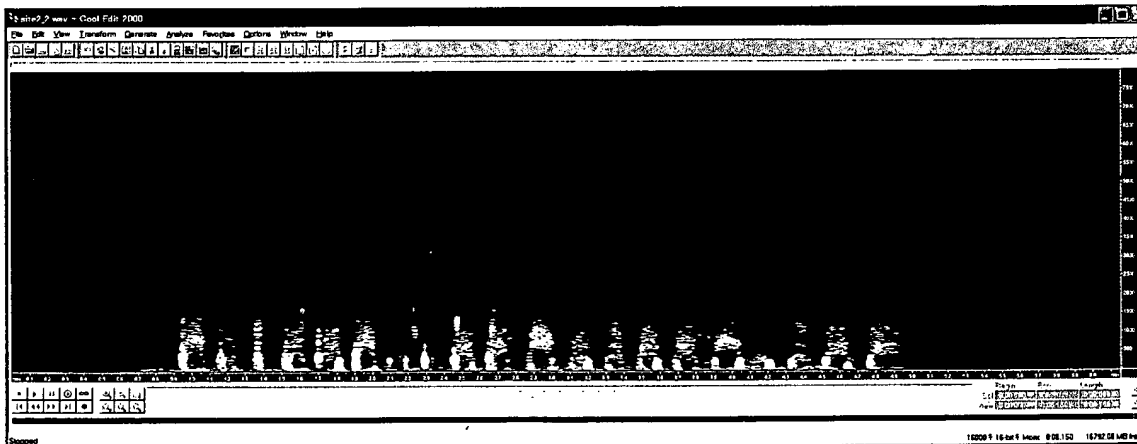


FIG. 10

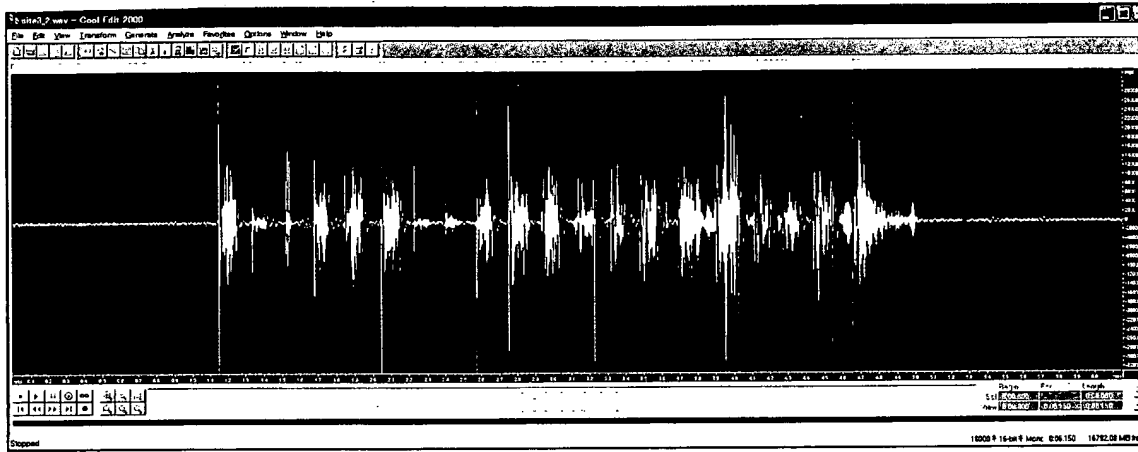


FIG. 11

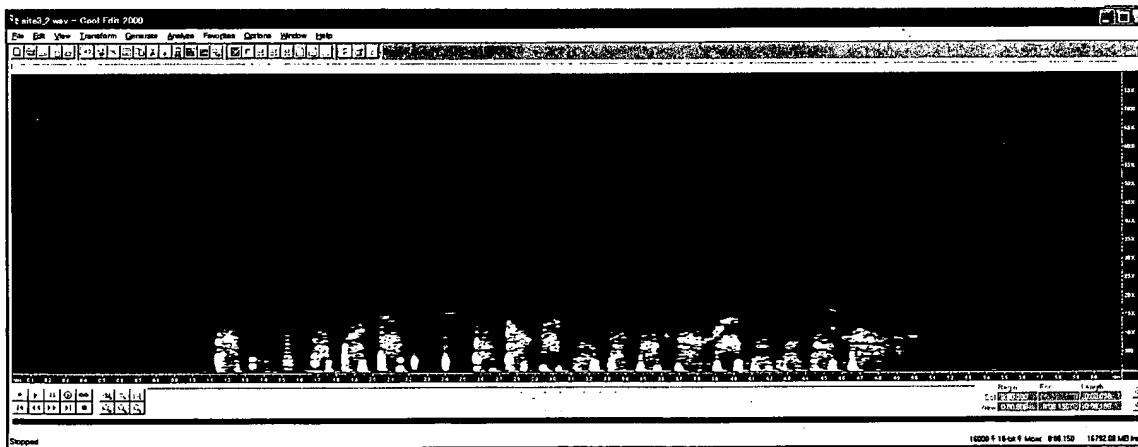


FIG. 12

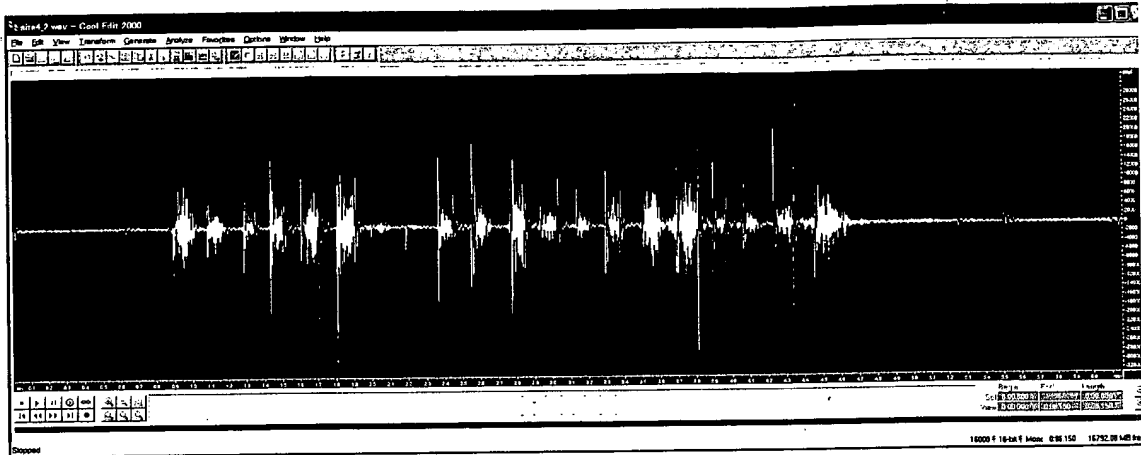


FIG. 13

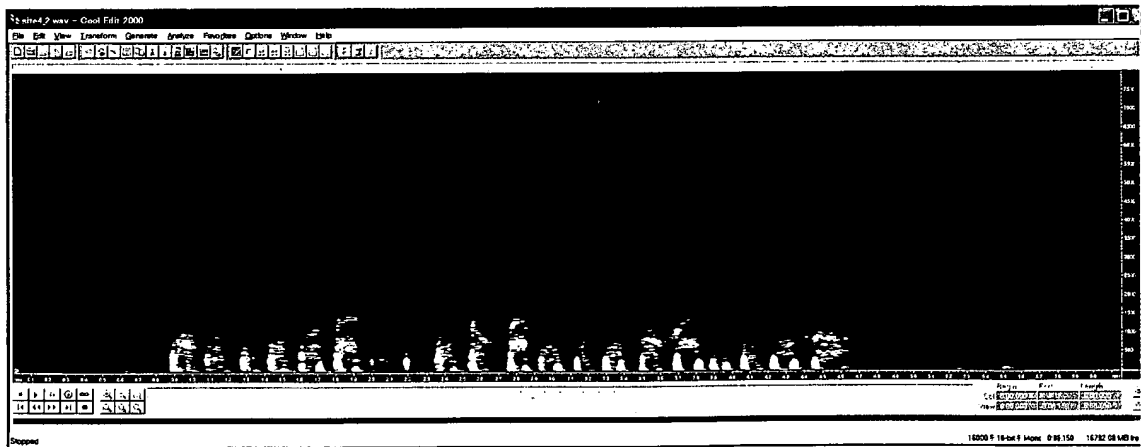


FIG. 14

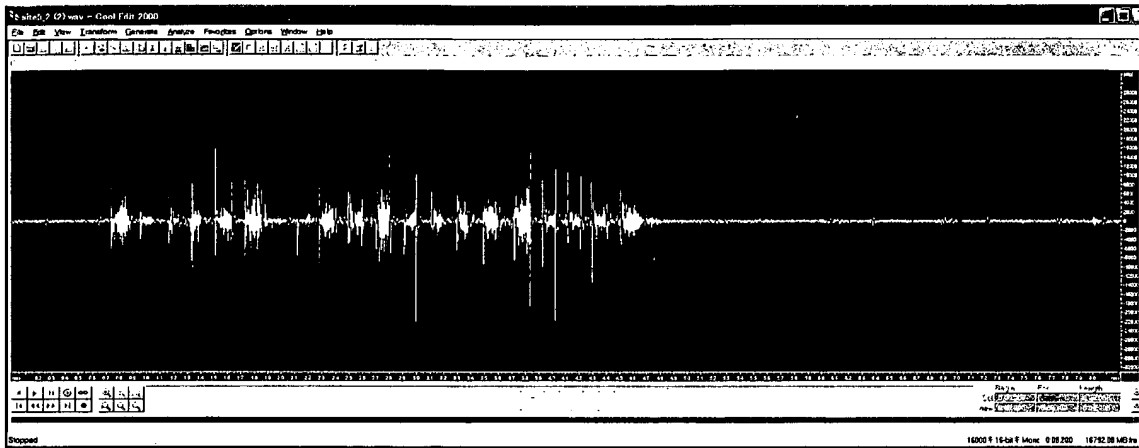


FIG. 15

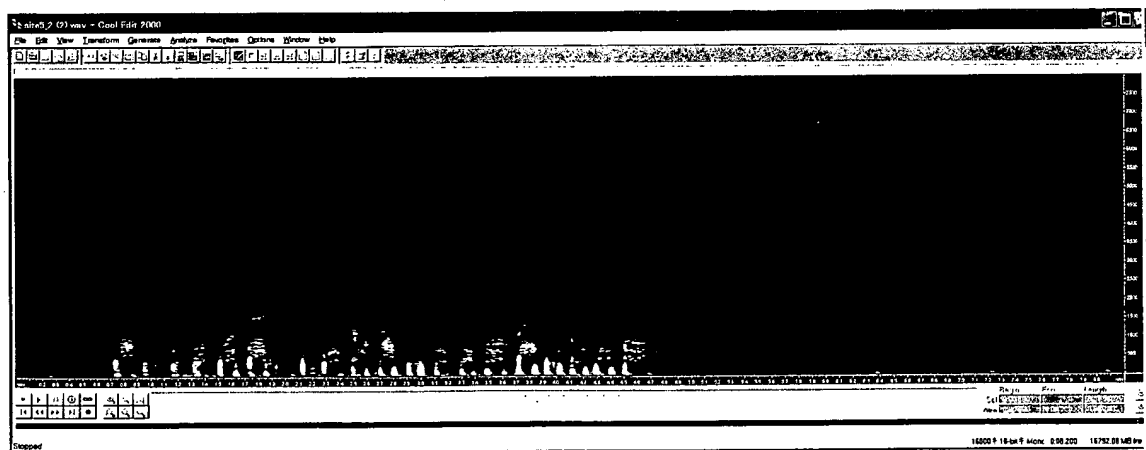


FIG. 16

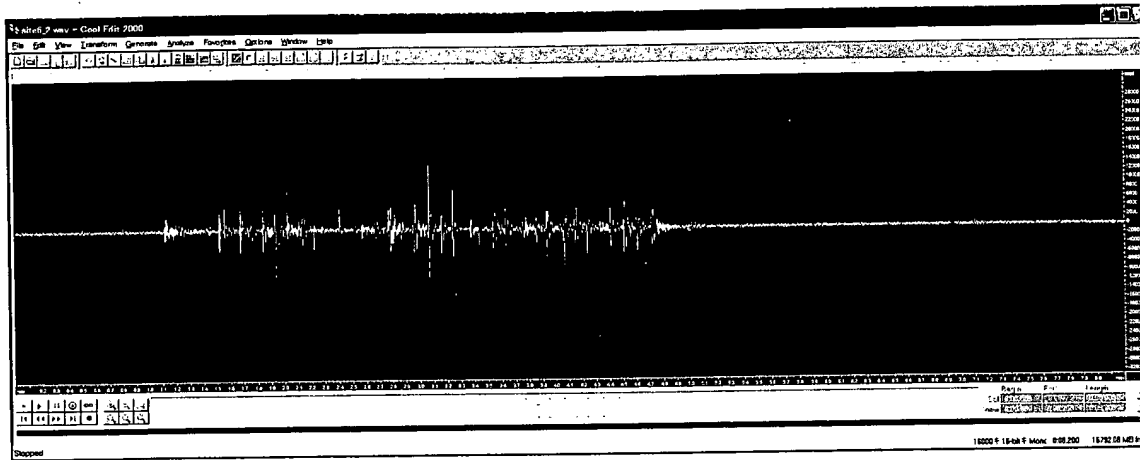


FIG. 17

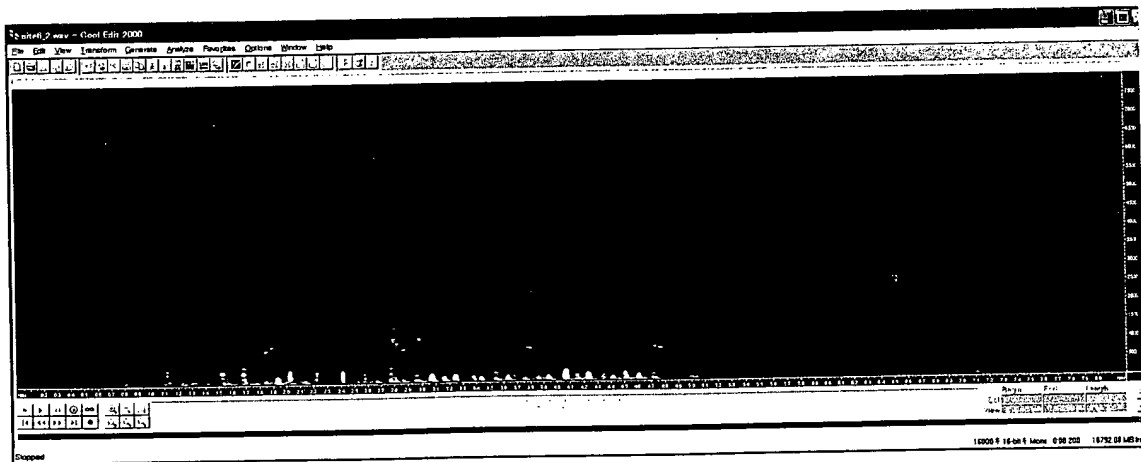


FIG. 18

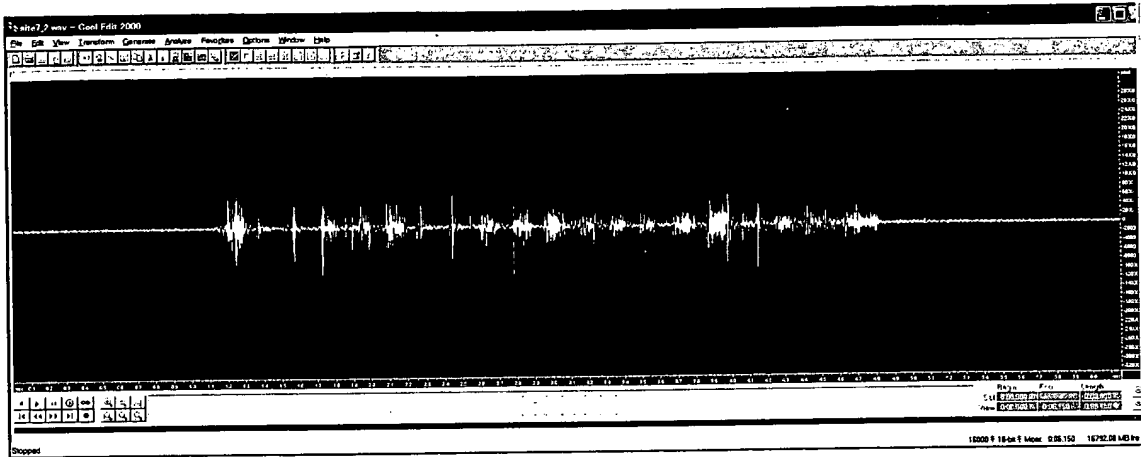


FIG. 19

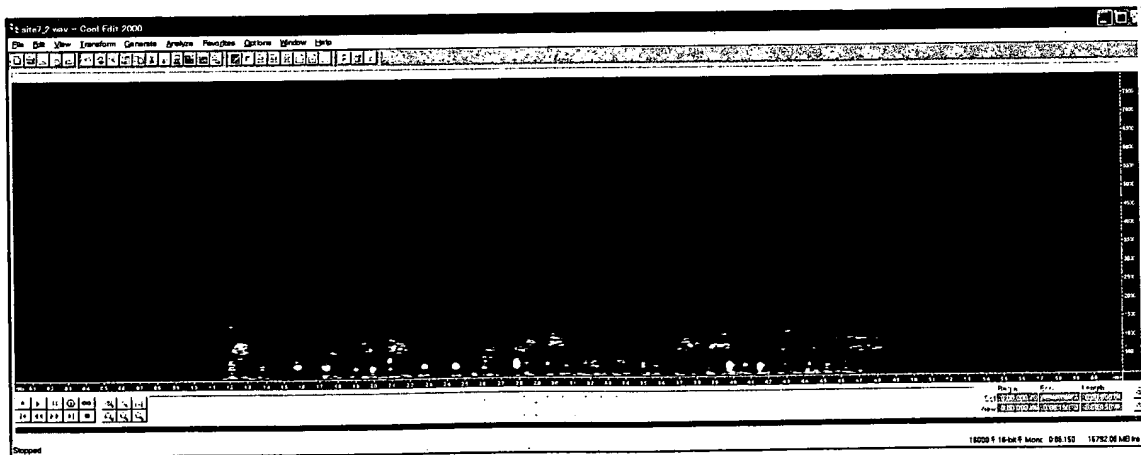


FIG. 20

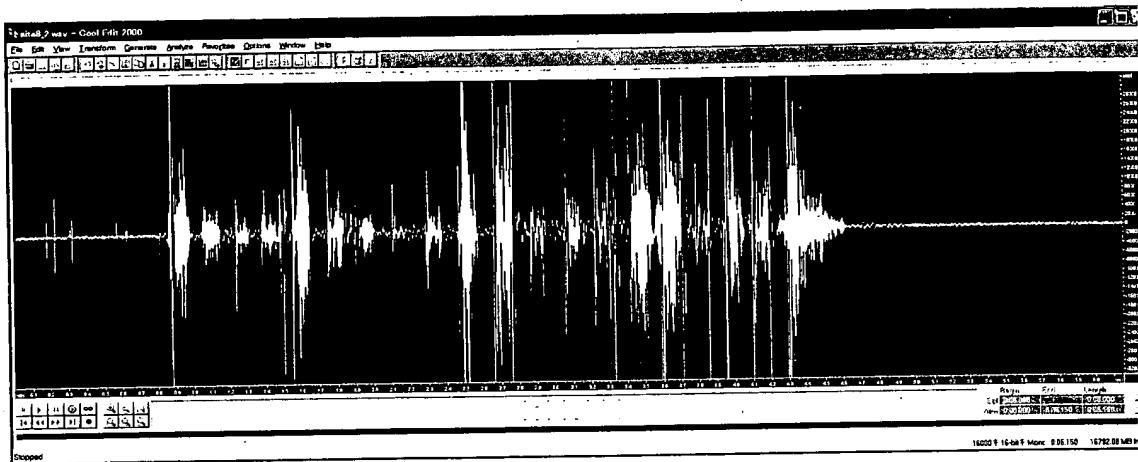


FIG. 21

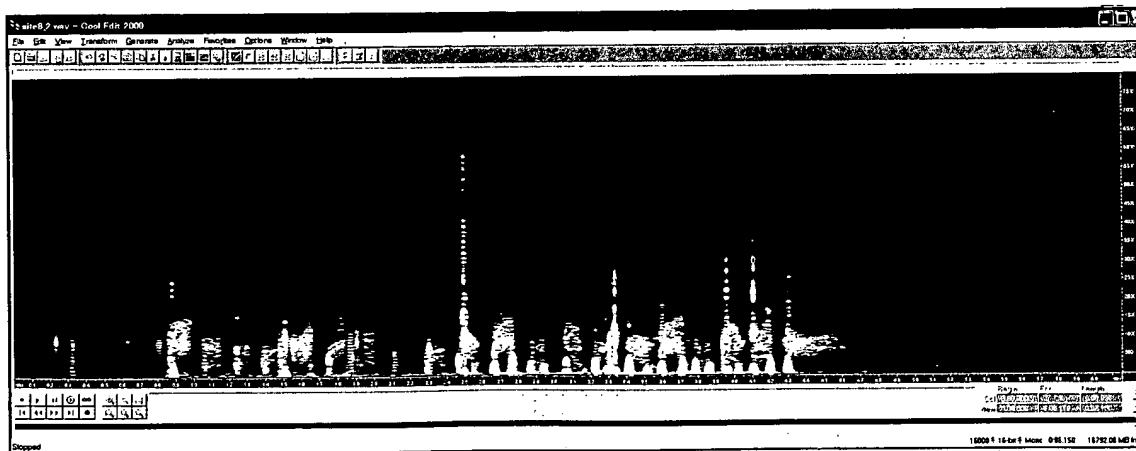


FIG. 22

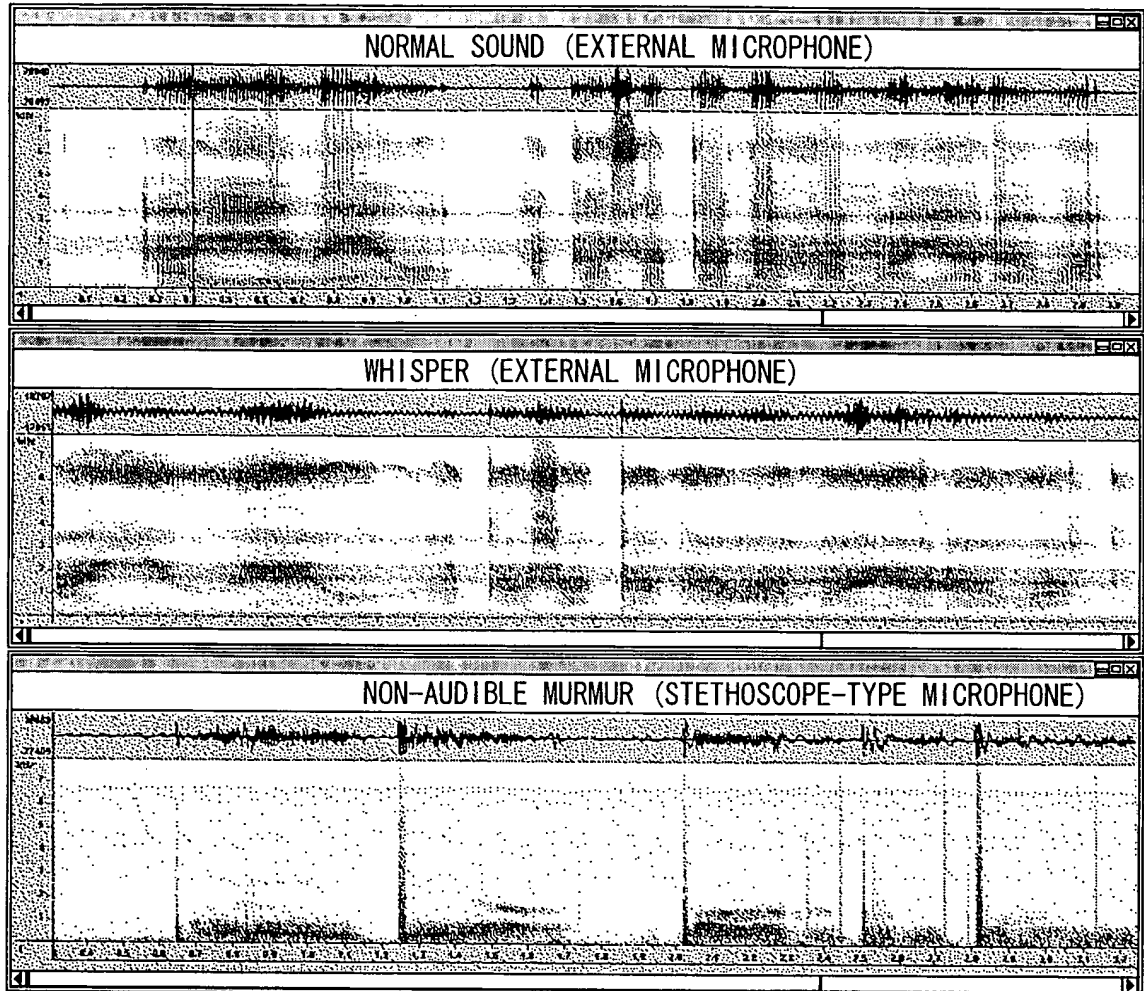


FIG. 23

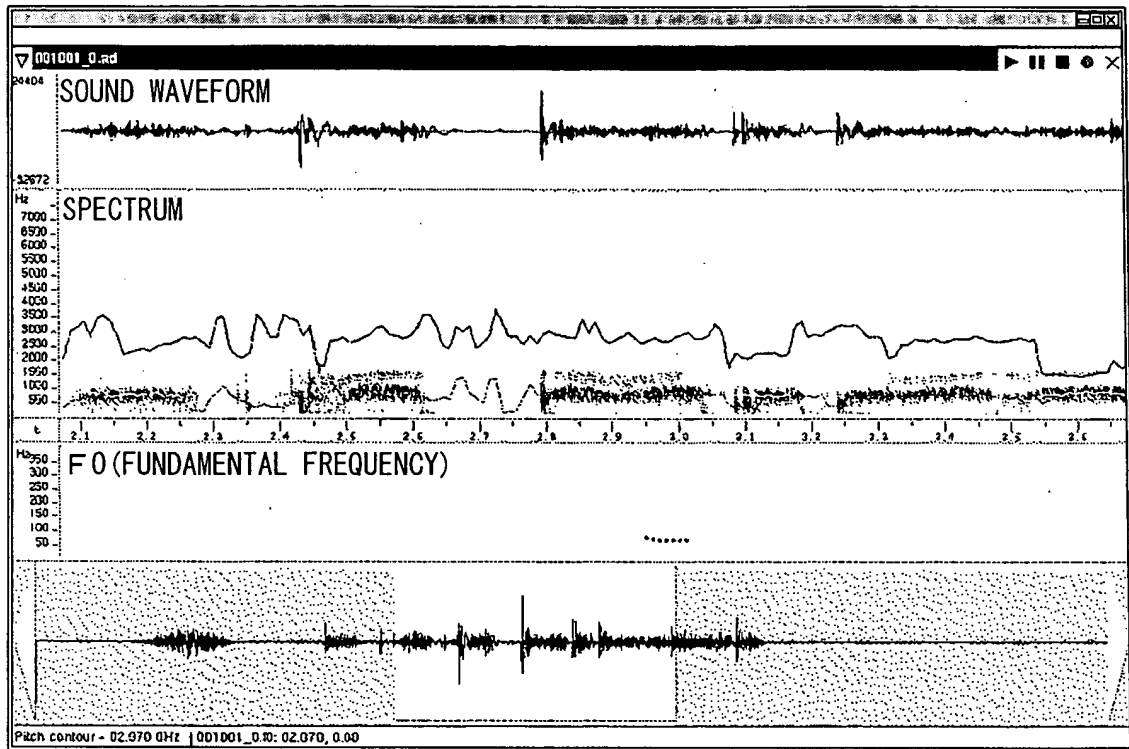
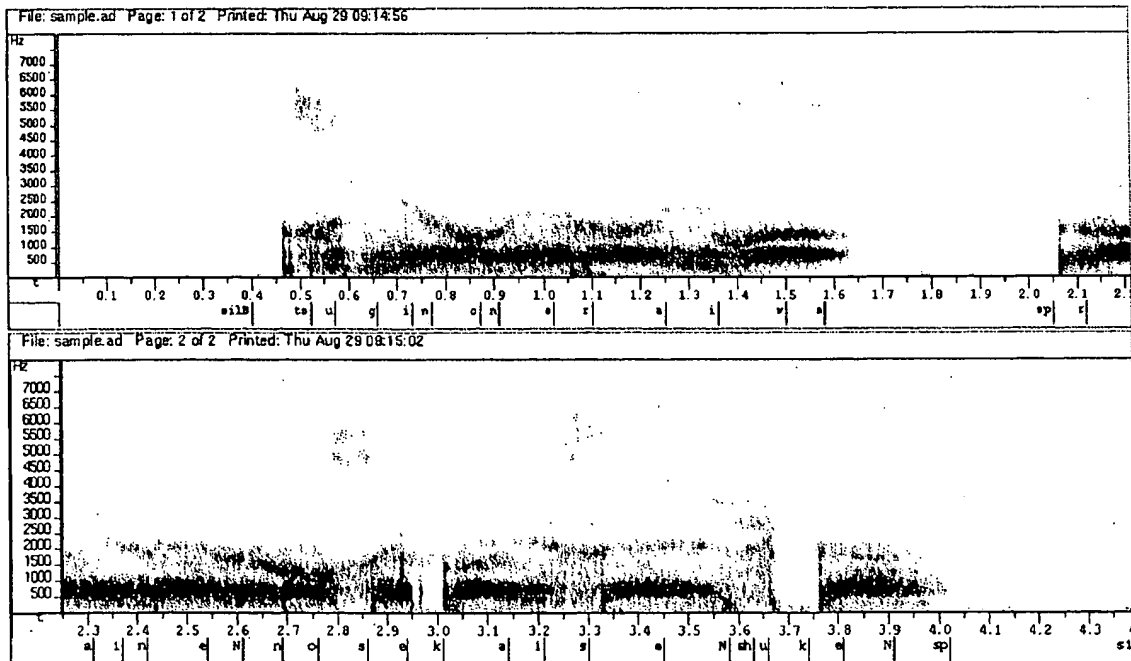


FIG. 24



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FIG. 25

```

~0
<STREAMINFO> 1 25
<VECSIZE> 25<NULLD><MFCC_E_D_N_Z>
~v "varFloor1"
<VARIANCE> 25
  6.845598e-01 3.620601e-01 6.141410e-01 5.992151e-01 6.474376e-01 5.596979e-01
  5.180961e-01 4.608540e-01 4.436918e-01 3.501987e-01 3.529722e-01 3.586349e-01
  3.264094e-02 2.486226e-02 3.090884e-02 3.711306e-02 3.771559e-02 3.360033e-02
  3.304988e-02 3.315283e-02 3.021599e-02 2.588712e-02 2.662551e-02 2.389407e-02
  4.999814e-03
~h "N"
<BEGINHMM>
<NUMSTATES> 5
<STATE> 2
<NUMMIXES> 16
<MIXTURE> 1 1.046381e-02
<MEAN> 25
  5.809096e+00 -4.870050e+00 -9.598083e+00 -3.164768e+00 -2.887506e-01
  -1.924826e+00 4.777709e-01 3.007951e+00 3.412687e-01 -3.294970e+00 -5.155646e+00
  -4.753285e+00 1.419670e-01 -8.399510e-01 -2.441618e-01 1.567680e+00 1.309566e+00
  -6.253451e-01 -8.981193e-01 1.295617e-01 5.127974e-01 8.027955e-02 -2.928495e-01
  -2.293654e-01 5.205776e-03
<VARIANCE> 25
  4.307171e+00 9.096801e+00 1.196979e+01 2.072771e+01 1.222424e+01 2.032662e+01
  1.506035e+01 1.529038e+01 1.698042e+01 1.403773e+01 1.645332e+01 1.614891e+01
  1.826638e-01 5.175333e-01 5.052535e-01 1.048613e+00 9.394082e-01 1.612493e+00
  1.696100e+00 2.049170e+00 1.935052e+00 1.744048e+00 1.718481e+00 1.820801e+00
  2.860500e-02
<GCONST> 7.460973e+01
<MIXTURE> 2 4.999334e-02
<MEAN> 25

```

FIG. 26

enter filename->sample.ad

input speechfile: sample.ad

71199 samples (4.45 sec.)

length: 443 frames (4.43 sec.)

pass1_best: 次の狙いは、来年の世界選手権

pass1_best_wordseq: <s> 次+ツギ+2 の+ノ+67 狙い+ネライ+狙う+44/21/6 は+ワ+62 、+、
+75 来年+ライネン+16 の+ノ+67 世界+セカイ+2 選手権+センシュケン+2 </s>pass1_best_phonemeseq: siIB | tsugi | no | nera i | wa | sp | raine N
| no | seka i | se N shuke N | siE

pass1_best_score: -9701.213867

samplenum=443

sentence1: 次の狙いは、来年の世界選手権。

wseq1: <s> 次+ツギ+2 の+ノ+67 狙い+ネライ+狙う+44/21/6 は+ワ+62 、+、+75 来年+ラ
イネン+16 の+ノ+67 世界+セカイ+2 選手権+センシュケン+2 。+。+74 </s>phseq1: siIB | tsugi | no | nera i | wa | sp | raine N | no | seka
i | se N shuke N | sp | siE

score1: -9700.181641

FIG. 27

=== phoneme alignment begin ===

id: from to n_score applied HMMs (logical[physical])

id	from	to	n_score	applied HMMs (logical[physical])
0:	0	40	-19.724064	silB
1:	41	52	-22.823608	ts
2:	53	57	-24.751270	u
3:	58	66	-21.982897	g
4:	67	73	-23.161150	i
5:	74	77	-23.824615	n
6:	78	87	-23.395544	o
7:	88	91	-23.046295	n
8:	92	102	-19.944691	e
9:	103	110	-22.936371	r
10:	111	125	-20.051155	a
11:	126	136	-23.629505	i
12:	137	150	-20.323853	w
13:	151	158	-20.614105	a
14:	159	205	-21.943878	sp
15:	206	212	-24.896484	r
16:	213	231	-20.316792	a
17:	232	237	-22.075521	i
18:	238	242	-22.356543	n
19:	243	254	-20.028891	e
20:	255	261	-21.516880	N
21:	262	269	-22.186035	n
22:	270	276	-21.574429	o
23:	277	286	-23.942627	s
24:	287	294	-25.479004	e
25:	295	301	-21.975586	k
26:	302	314	-20.638823	a
27:	315	321	-21.788784	i
28:	322	330	-22.101671	s
29:	331	345	-21.983431	e
30:	346	358	-23.025429	N
31:	359	363	-26.996679	sh
32:	364	366	-31.410318	u
33:	367	374	-22.506775	k
34:	375	381	-23.957659	e
35:	382	391	-21.114843	N
36:	392	402	-22.174894	sp
37:	403	442	-19.606836	silE

re-computed AM score: -9598.631836

=== phoneme alignment end ===

584 generated, 582 pushed, 13 nodes popped in 443

FIG. 28

SYSTEM SUMMARY PERCENTAGES BY ENVIRONMENT↓

ENV.	Snt	Corr	Acc	Sub	Del	Ins	Err	S.Err
1. QUIET	24	93.61	93.33	4.72	1.67	0.28	6.67	50.00
2. MUSIC	24	91.11	90.00	6.67	2.22	1.11	10.00	62.50
3. TV-NEWS	24	89.72	89.17	9.17	1.11	0.56	10.83	66.67
Sum/Avg	72	91.48	90.83	6.85	1.67	0.65	9.17	59.72

FIG. 29

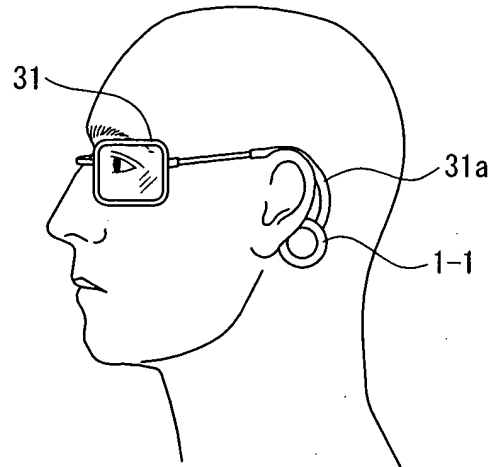


FIG. 30

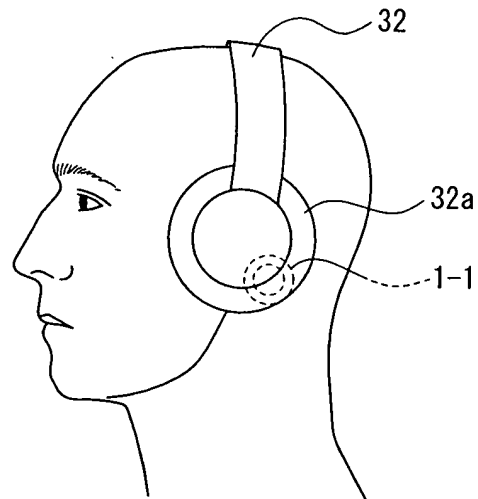


FIG. 31

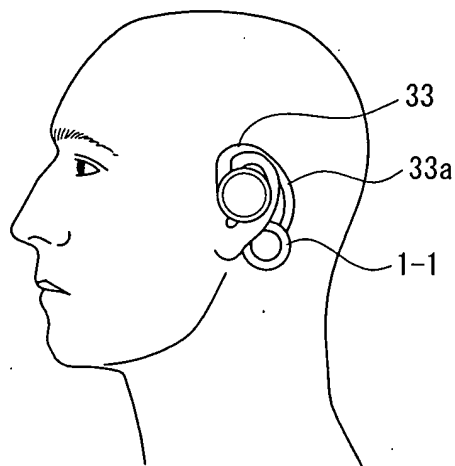


FIG. 32

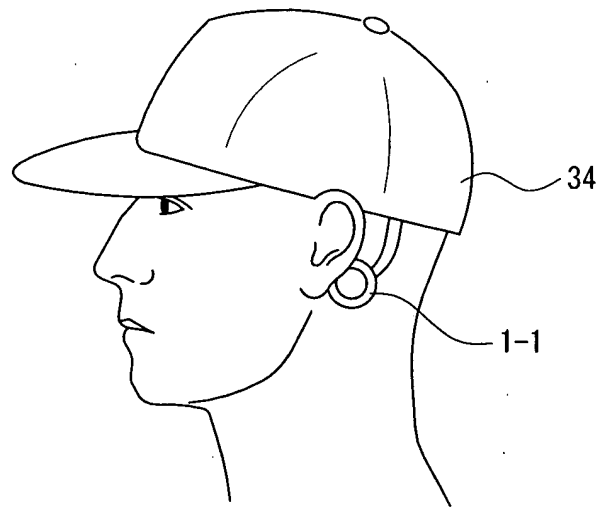


FIG. 33

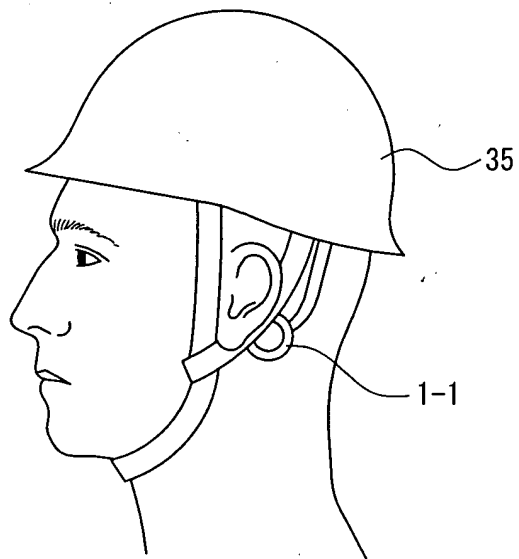


FIG. 34

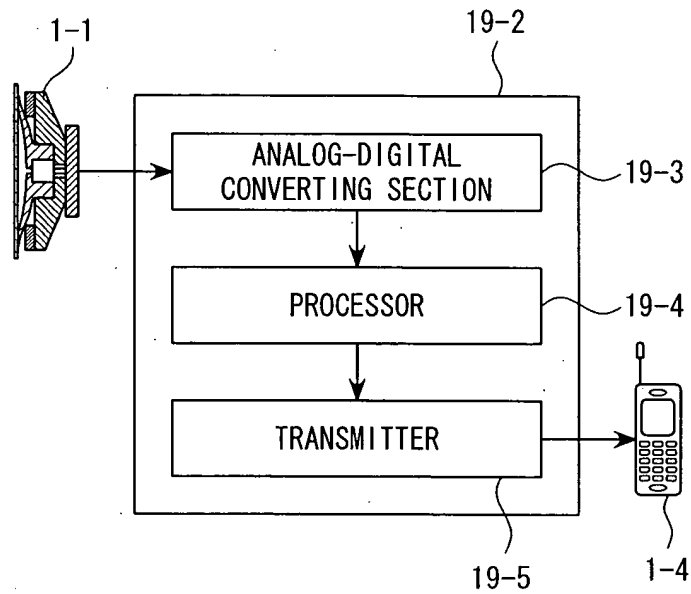


FIG. 35

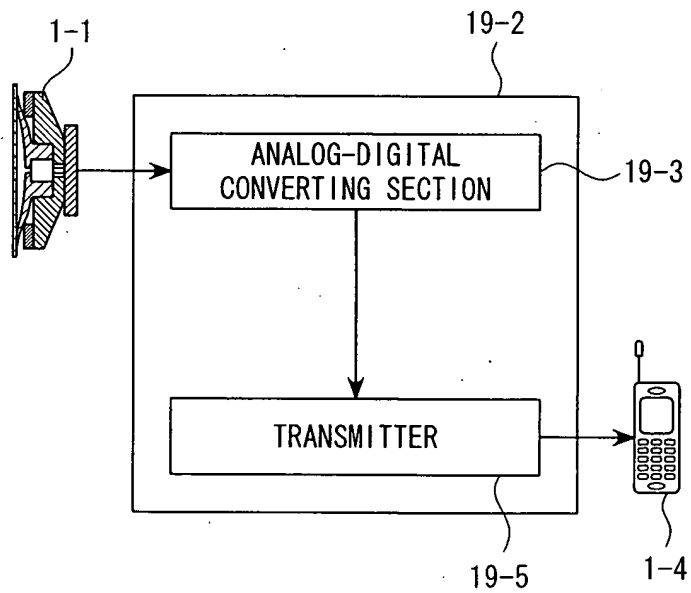


FIG. 36

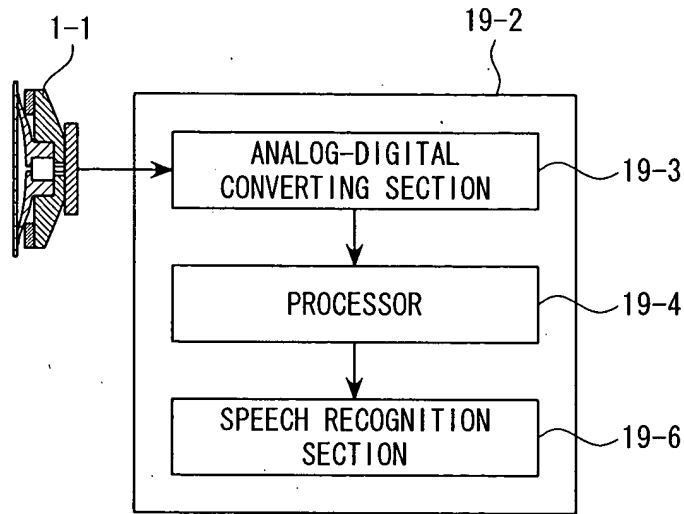
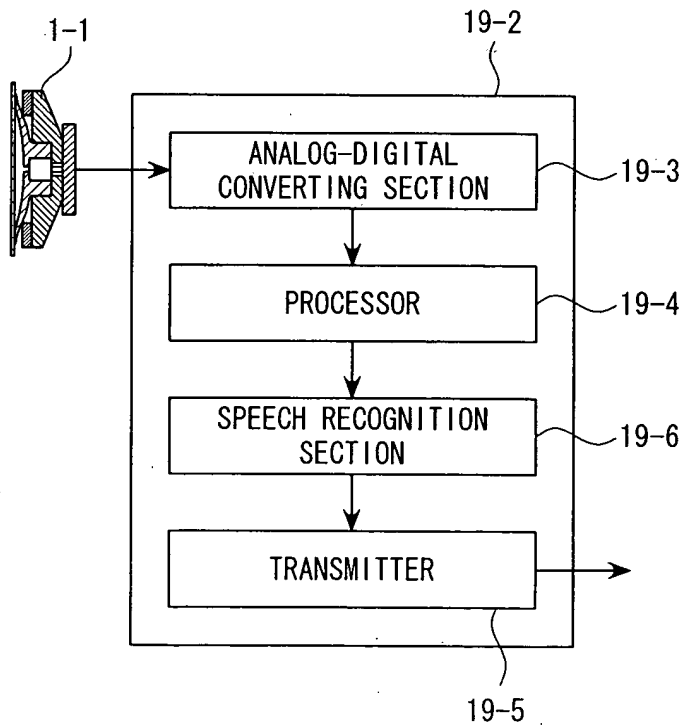


FIG. 37



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